

Lightweight Tunable Infrared Filter, Phase I

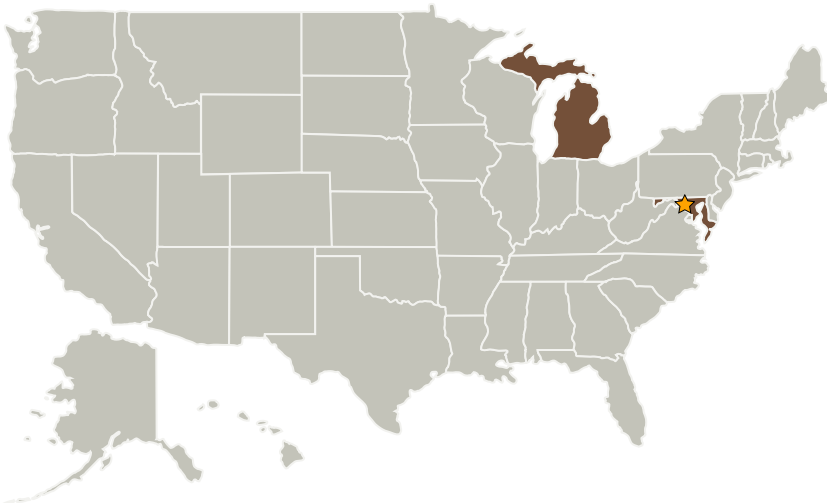
Completed Technology Project (2004 - 2004)



Project Introduction

Potential commercial applications include the retirement of satellites that have become unresponsive or unstable. For instance when this occurs in a constellation of satellites, where relative position to each other is critical, removing the defective satellite and replacing it with a new one is of great importance. A potential military application is the retirement of a spacecraft that attempts to maintain its orbit because it has become unresponsive and does not know not to fight the de-orbit process. It could also be applied to a satellite that is still responsive but it is still desired to de-orbit it.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland
Michigan Aerospace Corporation	Supporting Organization	Industry	Ann Arbor, Michigan

Primary U.S. Work Locations

Maryland	Michigan
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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Carl A Nardell

Technology Areas

Primary:

- TX09 Entry, Descent, and Landing
 - └ TX09.1 Aeroassist and Atmospheric Entry
 - └ TX09.1.3 Passive Reentry Systems for SmallSats